I MINA'TRENTAI UNU NA LIHESLATURAN GUÅHAN 2011 (FIRST) Regular Session

Resolution No. 15-31 (COR)

Introduced by:

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B. J.F. Cruz

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Relative to expressing the concerns of *I Liheslaturan Guåhan* relative to the proposal made by the Department of Defense (DoD) to drill additional fresh water wells into Guam's aquifer, and to request that DoD provide additional financial resources for water conservation and a comprehensive water management program; to encourage the use of green technology to make the best use of limited water resources; to prevent mining of Guam's aquifer for commercial purposes; and to declare that safe and clean drinking water and

sanitation are human rights essential to the full enjoyment of life.

BE IT RESOLVED BY THE COMMITTEE ON RULES OF I 1 2 MINA'TRENTAI UNU NA LIHESLATURAN GUĂHAN: 3 WHEREAS, the United States Department of Defense (DoD) is actively 4 coordinating a massive military buildup in Guam that will include permanent 5 facilities and infrastructure to support a new Marine base, expanded facilities for other branches of military service, and additional personnel and their 6 7 families, as well as warfare training; and 8 WHEREAS, among the most important needs that must exist or be 9 produced in Guam for the buildup is an adequate supply of fresh water, of 10 which Guam has a plentiful, but not limitless amount; and 11 WHEREAS, numerous rivers and streams can be found in southern 12 Guam, but the full potential of the island's surface water resources has not 13 been adequately explored; however; the majority of the buildup will occur in 14 northern Guam, where the island's unique aquifer, located under the northern 15 third of the island, is the most important source of fresh water; and WHEREAS, Guam's aquifer is divided into six (6) sub-basins separated 16 17 by walls of volcanic rock, its underground water supply consisting of 18 limestone soaked with fresh water, as well as residing on limestone soaked 19 with seawater: and

WHEREAS, the location and depth of any new wells that may be in 1 2 Department of Defense (DoD) plans are a great concern because wells must be 3 drilled to an appropriate depth to tap into fresh water rather than seawater, 4 and pumping too large a quantity of fresh water may cause seawater to rise 5 upward into the zone of fresh water, causing irreparable harm to the aquifer; 6 and 7 WHEREAS, the Guam Waterworks Authority (GWA) estimates that 8 there is a need to drill sixteen (16) additional wells into Guam's aguifer to 9 accommodate Guam's organic growth over the coming years; and 10 WHEREAS, the DoD has made clear their intent to drill twenty-two (22) 11 new wells for an estimated additional thirteen (13) million gallons daily (mgd) 12 to support the addition of nearly eighty thousand (80,000) additional people 13 due to the buildup; and 14 WHEREAS, this added number of GWA and DoD wells will drive 15 Guam's daily consumption to over sixty-five (65) mgd by the completion of 16 the buildup; and 17 WHEREAS, the Draft Environmental Impact Statement (DEIS), Final 18 Environmental Impact Statement (FEIS), and Record of Decision (ROD) all fail 19 to adequately address the impacts to the public water supply, primarily 20 because the impact will take place outside the military fence line; and

WHEREAS, as a result, drinking water infrastructure improvements are not included in the proposed project, even though the construction workforce is a necessary factor in implementing the buildup's projects; and

WHEREAS, this project-related population increase will create a projected shortfall of thirteen (13) mgd; will significantly affect the ability of GWA to provide a sufficient quantity of adequate quality drinking water for Guam's general population; and will create potentially serious and unacceptable public health implications that may fall disproportionately on low-income residents; and

WHEREAS, potable water shortages and contaminated water sources often result in the spread of waterborne diseases, such as diarrhea, cholera, typhoid and parasite infections, and are among the leading causes of illness and death worldwide; and

WHEREAS, an additional concern is the military's history of abusing Guam's land and water through the use of pesticides and herbicides during and after World War II, including the regular use of DDT, Agent White, Agent Purple, Agent Orange, Silvex, and 2,4-d, which were commonplace in the reconstruction of postwar Guam, many of these chemicals having made their way into the Guam aquifer; and

WHEREAS, in order to avoid the projected thirteen (13) mgd shortfall, DoD has proposed a mitigation of three (3) mgd within the DoD water system to assist GWA with its water needs in northern Guam, provided the necessary

- 1 piping is installed by GWA or a contractor; however, among many other
- 2 mitigation obstacles, this mitigation proposal:
- a. lacks interconnection points;

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- b. does not address the fact that DoD's water mains require replacement; and
- c. does not take into account droughts which would reduce the
 capacity of DoD water production; and
- WHEREAS, DoD must cooperate with GovGuam to be directly responsible for ensuring a sufficient water supply is available to Guam during the construction phase, and must provide financial resources and technical support to address the significant water shortage, the inadequate drinking water infrastructure for contractor and civilian population growth due to the military expansion, and to upgrade Guam's secondary sewer treatment facilities; and
 - WHEREAS, DoD must immediately commit to this action to meet the water demands of the increased number of people that will soon be arriving in support of the military buildup, as well as Guam's projected organic growth; and
 - WHEREAS, Guam's infrastructure needs include new wells and water system facilities, including water lines, booster pumps, storage tanks, and primary and secondary treatment facilities, and the DoD support must identify, plan, design, and implement necessary capital improvement projects

1 to address the water shortfall and provide financial and technical assistance

for the siting, design, construction, operation, and maintenance of Guam's

water supply and distribution system; and

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WHEREAS, DoD must provide clear, documented commitments to provide specific quantities of DoD water to address construction-related shortfalls in supply, as well as providing financial, engineering, and technical assistance to GWA for implementing effective water conservation programs, such as leak detection, water line replacement, and development and implementation of an effective water efficiency and conservation program; and

WHEREAS, in order to implement long-term water management in Guam, workgroups must be formed in cooperation with GovGuam to develop a long-term drinking water management system to assess, maintain, upgrade, and conserve Guam's northern aquifer, and GWA and DoD must integrate all new water systems, including surface water systems in southern Guam, to protect, and avoid unnecessarily taxing, the northern aquifer; and

WHEREAS, water conservation guidelines and ordinances must be developed and implemented for all military bases and incorporated into contract language for construction worker housing, to include retrofitting toilets, urinals, faucets, and showerheads with appropriate water conservation

devices including the replacement of older toilets and urinals; and

WHEREAS, all new homes, the new base for the Marines, barracks for construction workers, and all supporting infrastructure for the military buildup must include WaterSense certified toilets, faucets, and showerheads, and all homes under military jurisdiction must be equipped with ENERGY STAR certified clothes washers; and

WHEREAS, landscaping must include native vegetation only and avoid lawns requiring artificial water sprinkler irrigation, with all landscaping site design retaining ninety-five percent (95%) of rainfall through swales; and

WHEREAS, water meters installed on all buildings must have tiered rates to discourage excessive water use, help detect water leaks, and encourage water conservation, and both DoD and GovGuam must provide outreach that supplies tips for water conservation in homes and provides free in-home water audits and leak detection; and

WHEREAS, all structures must have leak detection equipment installed or conduct annual detection surveys on all existing military water systems, and the Main Cantonment must include the installation of leak detection equipment during new water system construction, dual plumbing for non-potable water use, and rainwater catchments and gray water systems to reduce water demand and wastewater flow to all treatment facilities; and

WHEREAS, Guam's northern aquifer, as well as surface water in the south, is vital to the quality of life of every individual in Guam: from farming needs to cleaning homes, for sanitary purposes, as well as for the drinking

- 1 needs of all living creatures, and DoD and GovGuam must work
- 2 cooperatively to prevent and discourage any attempts at misuse of Guam's
- 3 aquifer and surface water systems, including mining for commercial
- 4 purposes; and
- 5 WHEREAS, Guam Public Law 20-06:7 states: "All surface water and
- 6 ground water in Guam are declared to be a public asset and to belong to all of
- 7 the people of Guam held in trust by the Government of Guam," thus all
- 8 efforts relative to Guam's fresh water supply, and to both civilian and DoD
- 9 needs, must be under the umbrella of an Integrated Water and Wastewater
- 10 System; and
- 11 WHEREAS, clean, readily available water for everyone in Guam is a
- 12 human right that cannot and must not be infringed upon or exploited due to
- 13 mismanagement or for commercial purposes; now, therefore, be it
- 14 **RESOLVED**, that *I Liheslaturan Guåhan* recognizes the critical and
- 15 constant need for ensuring sanitary and safe drinking water for all of the
- 16 people of Guam, and that the buildup will bring added pressures on limited
- 17 water and wastewater resources, making it necessary that the Department of
- 18 Defense work with GovGuam to avoid exploitation and contamination of
- 19 Guam's northern aquifer and all other water resources, to eliminate current
- 20 contamination, prevent future contamination, implement conservation
- 21 programs, and create sustainable solutions for wastewater treatment and
- 22 management; and be it further

RESOLVED, that the Department of Defense must cooperate with GovGuam to be directly responsible for ensuring a sufficient water supply is available to Guam during the construction phase, and the Department of Defense must provide financial resources and technical support to address the significant water shortage, the inadequate drinking water infrastructure for contractor and civilian population growth due to the military expansion, and to upgrade Guam's secondary sewer treatment facilities, and commit to action to meet the water demands of the increased number of people that will soon be arriving in support of the military buildup as well as Guam's projected organic growth; and be it further

RESOLVED, that Guam's infrastructure needs include new wells and water system facilities, including water lines, booster pumps, storage tanks, and primary and secondary treatment facilities, and the DoD support must identify, plan, design, and implement necessary capital improvement projects to address the water shortfall, including development and expansion of surface water resources in southern Guam, and provide financial and technical assistance for the siting, design, construction, operation, and maintenance of Guam's water supply and distribution system; and be it further

RESOLVED, that DoD must commit to providing specific quantities of DoD water to address construction-related shortfalls in supply, as well as providing financial, engineering, and technical assistance to GWA for

1 implementing effective water conservation programs, such as leak detection,

2 water line replacement, and the development and implementation of an

effective water efficiency and conservation program; and be it further

RESOLVED, that workgroups must be formed in cooperation with GovGuam to develop a long-term drinking water management system to assess, maintain, upgrade, expand if necessary, integrate and conserve all of Guam's water systems, including surface water systems, to protect, and avoid unnecessarily taxing, the northern aquifer; and be it further

RESOLVED, that water conservation guidelines and ordinances must be developed and implemented for all military bases and incorporated into contract language for construction worker housing, to include retrofitting and replacing existing equipment with that which conserves water; and be it further

RESOLVED, that DoD and GovGuam must work cooperatively to prevent and discourage any attempts at misuse of Guam's aquifer and surface water systems, including mining for commercial purposes; both civilian and DoD water needs must be under the umbrella of an Integrated Water and Wastewater System; and that clean, readily available water for everyone in Guam is a human right that cannot and must not be infringed upon or exploited due to mismanagement or for commercial purposes; and be it further

RESOLVED, that the Speaker and the Chairperson of the Committee on 1 Rules certify, and the Legislative Secretary attest to, the adoption hereof, and 2 that copies of the same be thereafter transmitted to President Steve Robinson, 3 First Vice President Gene Schmidt, Second Vice President Earl Garber, and 4 5 Secretary/Treasurer Jack Majeres of the National Association of Conservation Districts; to the Honorable Ken Salazar, Secretary of the United States 6 7 Department of the Interior; to the Honorable Tony Babauta, Assistant Secretary of the Interior for Insular Areas, United States Department of the 8 9 Interior; to Dr. Robert Underwood, President, University of Guam; to Dr. Lee Yudin, Dean of the College of Natural and Applied Sciences, University of 10 11 Guam; to Roland J. Quitugua, President, and Oscar G. Flores, Vice-President, 12 Guam Association of Conservation Districts; to the Guam Association of 13 Conservation Districts; and to the Honorable Edward J.B. Calvo, I Maga'lahen Guåhan. 14

DULY AND REGULARLY ADOPTED BY THE COMMITTEE ON RULES OF I MINA'TRENTAI UNU NA LIHESLATURAN GUÅHAN ON THE 26^{TH} DAY OF JANUARY, 2011.

JUDITH T. WON PAT, Ed. D Speaker RORY J. RESPICIO

Chairperson, Committee on Rules

TINA ROSE MUÑA BARNES
Legislative Secretary